

Estimania

Notes for Event Presentation on November 3, 2011

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Katie Burns —

- For this event, there will be between 5 – 7 stations. / 3-4 questions at each
- Students will be asked to estimate:
 - Quantity
 - Length
 - Volume
 - Mass
- Skills Needed:
 - ✓ Estimation
 - ✓ Knowledge of Metric System and U.S. Measurements
 - ✓ Ratio/Proportion and Scale
 - ✓ Scientific Notation

* conversion table will be provided,
- At each estimating station, students will be asked several questions of increasing difficulty.

Example:

How many kidney beans are in the jar?
How many kidney beans would be in 8 jars?
How many kidney beans would be in 1.5 jars?

Example:

What is the length, in feet, of the area covered on the map?
What is the length, in decimeters, of the area covered on the map?
How many 3cm paperclips could be placed end to end to cover the area depicted on the map?

Example:

The small wooden cube, provided, weighs 6g. How many wooden cubes could be used to fill the empty box?
If you filled the empty box with wooden cubes, what would be the mass of the contents?
How would you write this number, using scientific notation?

Students will be allowed to bring measuring cups, rulers, and other tools as outlined in the Science Olympiad rules booklet.

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The event manager will also provide relevant measuring tools at each station. For example, if students are counting kidney beans in a jar, there will be a container of kidney beans students can touch/count for comparison and estimation purposes.

The event manager will provide calculators at each station.

and also rulers + measuring cups needed.

The Science Olympiad rules booklet provides the following scoring guidelines, which will be followed:

0 - 10% away from answer = 5 pts.

11 - 20% away from answer = 4 pts.

21 - 30% away from answer = 3 pts.

31 - 40% away from answer = 2 pts.

Tie Breaker: To be discussed at our 11/03/11 meeting. (Rules booklet indicates a tie will be broken by the team with the fastest time).

will be broken with answer closest to the correct answer

3-4 Q at each station